OK TO ENTER: /AW/ (12/08/2011)

Amendments to the Claims:

The following listing of claims replaces all prior versions, and listings, of claims in the application:

Listing of Claims:

- 1-2. (Cancelled)
- 3. (Currently Amended) A method for the selective enrichment of prostate cancer stem cells which express CD133, CD44, and high levels of $\alpha_2\beta_1$ integrin which comprises the following steps:
 - i) providing a cell preparation comprising prostate cancer stem cells derived from prostate tissue;
 - ii) providing cell culture conditions which allow the maintenance of said prostate cancer stem cells in culture and the binding of said prostate cancer stem cells to a collagen based matrix;
 - selecting said bound cells wherein said for expression of CD133 and isolating bound cells that express CD133 antigen, CD44 antigen, and $\alpha_2\beta_1$ integrin.
- 4. (Previously Presented) A method according to Claim 3 wherein said method includes the additional steps of:
 - iv) culturing prostate cancer stem cells which express CD133 antigen in culture medium comprising granulocyte macrophage colony stimulating factor (GM-CSF), stem cell factor (SCF) and leukaemia inhibitory factor (LIF); and
 - v) passaging the prostate cancer stem cells in (i) in a serum free medium.
- 5. (Previously Presented) A method according to Claim 3 wherein said selected cells express human epithelial antigen.
- 6-8. (Cancelled)
- 9. (Currently Amended) A method according to Claim 3 wherein said cancerous prostate <u>cancer stem</u> cells are metastatic.

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10. (Currently Amended) A method according to Claim 3 wherein said eancerous prostate

cancer stem cells are from a primary prostate tumour.

11. (Previously Presented) A method according to Claim 3 wherein said collagen based

matrix comprises collagen I.

12. (Previously Presented) A prostate cancer stem cell obtainable by the method of Claim 3.

13. (Cancelled)

14. (Currently Amended) A prostate cancer stem cell according to Claim 12 wherein said

stem cell is cloned.

15. (Currently Amended) A cell culture of prostate cancer stem cells wherein said cells

express CD133 antigen, CD44 antigen, and $\alpha_2\beta_1$ integrin wherein said prostate cancer stem

cells have high in vitro proliferative potential, have higher colony forming efficiency than

 $\alpha_2\beta_1$ integrin^{low} CD133 prostate cells and can form cancerous prostatic-like acini in an

immune-compromised non-human animal model.

16-17. (Cancelled)

18. (Previously Presented) A cell culture according to Claim 15 wherein said prostate

cancer stem cells express human epithelial antigen.

19-20. (Cancelled)

21. (Previously Presented) A culture according to Claim 15 wherein said prostate cancer

stem cells express CD133 antigen, $\alpha_2\beta_1$ integrin, human epithelial antigen and CD44 antigen.

22-74. (Cancelled)

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